

SLC2A1 (GLUT1) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21407b**Specification**

SLC2A1 (GLUT1) Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P11166
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG

SLC2A1 (GLUT1) Antibody (C-term) - Additional Information**Gene ID** 6513**Other Names**

Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1, GLUT1

Target/Specificity

This SLC2A1 (GLUT1) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 464-497 amino acids from the C-terminal region of human SLC2A1 (GLUT1).

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC2A1 (GLUT1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC2A1 (GLUT1) Antibody (C-term) - Protein Information**Name** SLC2A1 ([HGNC:11005](#))**Function** Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:[10227690](#), PubMed:[10954735](#), PubMed:[18245775](#), PubMed:[19449892](#),

PubMed:[25982116](#), PubMed:[27078104](#), PubMed:[32860739](#)). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:[18245775](#), PubMed:[19449892](#)). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy- independent, facilitative transport of glucose into the brain (PubMed:[10227690](#)). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for mesendoderm differentiation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor inner segment {ECO:0000250|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:24847886, PubMed:25982116). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

Tissue Location

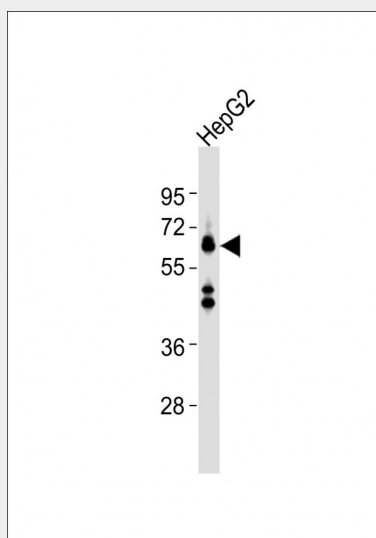
Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

SLC2A1 (GLUT1) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC2A1 (GLUT1) Antibody (C-term) - Images



Anti-SLC2A1 (GLUT1) Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysates
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

SLC2A1 (GLUT1) Antibody (C-term) - Background

Facilitative glucose transporter. This isoform may be responsible for constitutive or basal glucose uptake. Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses.

SLC2A1 (GLUT1) Antibody (C-term) - References

Mueckler M., et al. Science 229:941-945(1985).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Fukumoto H., et al. Diabetes 37:657-661(1988).
Yu W., et al. Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.

SLC2A1 (GLUT1) Antibody (C-term) - Citations

- [Hyperglycemia in Pregnancy-Associated Oxidative Stress Augments Altered Placental Glucose Transporter 1 Trafficking via AMPK \$\alpha\$ /p38MAPK Signaling Cascade](#)